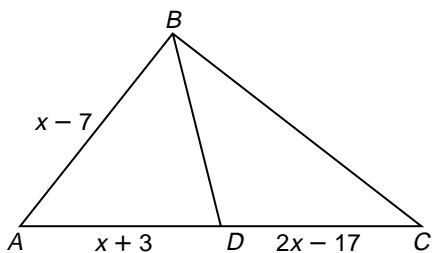


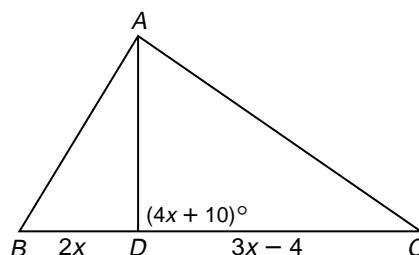
## Practice

Student Edition  
Pages 238–244**Special Segments in Triangles**

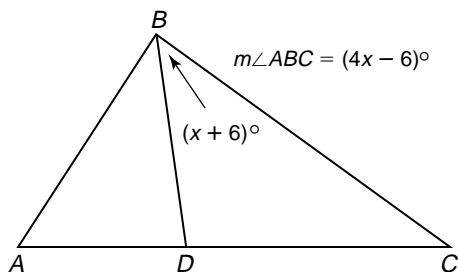
1. Find
- $AB$
- if
- $\overline{BD}$
- is a median of
- $\triangle ABC$
- .



2. Find
- $BC$
- if
- $\overline{AD}$
- is an altitude of
- $\triangle ABC$
- .



3. Find
- $m\angle ABC$
- if
- $\overline{BD}$
- is an angle bisector of
- $\triangle ABC$
- .



**In Exercises 4–6,  $A(2, 5)$ ,  $B(12, -1)$ , and  $C(-6, 8)$  are the vertices of  $\triangle ABC$ .**

4. What are the coordinates of  $K$  if  $\overline{CK}$  is a median of  $\triangle ABC$ ?
5. What is the slope of the perpendicular bisector of  $\overline{AB}$ ? What is the slope of  $\overline{CL}$  if  $\overline{CL}$  is the altitude from point  $C$ ?
6. Point  $N$  on  $\overline{BC}$  has coordinates  $\left(\frac{8}{5}, \frac{21}{5}\right)$ . Is  $\overline{NA}$  an altitude of  $\triangle ABC$ ? Explain your answer.